

## Claims

- [c1] 1. A combustor liner for a gas turbine, the combustor liner having a substantially cylindrical shape; and a plurality of axially spaced circumferential grooves formed in an outside surface of said combustor liner.
- [c2] 2. The combustor liner of claim 1 wherein said grooves are substantially semi-circular in cross-section.
- [c3] 3. The combustor liner of claim 1 wherein said grooves are arranged transversely to a direction of cooling air flow.
- [c4] 4. The combustor liner of claim 1 wherein said grooves are semi-circular in cross-section, and have a diameter D, and wherein a depth of said grooves is equal to about 0.05 to 0.50D.
- [c5] 5. The combustor liner of claim 4 wherein a center-to-center distance between adjacent grooves is equal to about 1.5-4D.
- [c6] 6. The combustor liner of claim 1 wherein a center-to-center distance between adjacent grooves is equal to about 1.5-4D.
- [c7] 7. The combustor liner of claim 1 wherein said grooves are each comprised of overlapping circular concavities.
- [c8] 8. The combustor liner of claim 1 wherein said grooves are angled relative to a direction of cooling air.
- [c9] 9. The combustor liner of claim 8 including a second plurality of circumferential grooves criss-crossed with said first plurality of circumferential grooves.
- [c10] 10. A combustor liner for a gas turbine, the combustor liner having a substantially cylindrical shape; and a plurality of axially spaced circumferential grooves formed in an outside surface of said combustor liner; wherein said grooves are semi-circular in cross-section, and have a diameter D, and wherein a depth of said grooves is equal to about 0.05 to 0.50D.
- [c11] 11. The combustor liner of claim 10 wherein a center-to-center distance

between adjacent grooves is equal to about 1.5–4D.

- [c12] 12. The combustor liner of claim 10 wherein said grooves are substantially semi-circular in cross-section.
- [c13] 13. The combustor liner of claim 12 wherein a center-to-center distance between adjacent grooves is equal to about 1.5–4D.
- [c14] 14. The combustor liner of claim 10 wherein said grooves are arranged transversely to a direction of cooling air flow.
- [c15] 15. The combustor liner of claim 10 wherein said grooves are angled relative to a direction of cooling air flow.